STR-D460Z/DE515/V505

SERVICE MANUAL

US Model
STR-D460Z/DE515
Canadian Model
E Model
Australian Model
PX Model
STR-DE515
Chinese Model
STR-V505

Photo : STR-DE515

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SPECIFICATIONS

Audio power specifications (US only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20 - 20,000 Hz, rated 100 watts per channel minimum RMS power, with no more than 0.09 % total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Stereo mode

Malaysia, Singapore MODEL:
(4 ohms at 20Hz
20kHz less than 0.09%
total harmonic distortion)
110W + 110W

Chinese MODEL:
(6 ohms at 20Hz
20kHz less than 0.09 %
total harmonic distortion)
110W + 110W

EXCEPT MODEL:
(8 ohms at 20 Hz
20 kHz less than 0.09%
total harmonic distortion)
100W + 100W

Surround mode

Malaysia, Sigapore MODEL:
(4 ohms at 1kHz, THD 0.8 %)
Front : 90W/ch
Center : 90W/ch
(8 ohms at 1kHz, THD 0.8 %)
Rear : 30 W/ch

Chinese MODEL:
(6 ohms at 1kHz, THD 0.8 %)
Front : 90W/ch
Center : 90W/ch
(8 ohms at 1kHz, THD 0.8 %)
Rear : 30W/ch

EXCEPT MODEL:
(8 ohms at 1 kHz, THD 0.8 %)
Front: 100 W/ch
Center: (Pro Logic Mode)
100 W
Rear: 50 W/ch

5.1/DVD* mode

Malaysia, Sigapore MODEL:
(4 ohms at 1kHz, THD 0.8 %)
Front : 90W/ch
Center : 90W/ch
(8 ohms at 1kHz, THD 0.8 %)
Rear : 30 W/ch

Chinese MODEL:
(6 ohms at 1kHz, THD 0.8 %)
Front : 90W/ch
Center : 90W/ch
(8 ohms at 1kHz, THD 0.8 %)
Rear : 30W/ch

EXCEPT MODEL:
(8 ohm at 1 KHz, THD 0.8%)
Front: 100W/ch
Center: 100W/ch
Rear: 50W/ch

Dynamic power output (For US only)
8 ohms: 150 W + 150 W
4 ohms: 200 W + 200 W

Frequency response
PHONO**: RIAA
· equalization curve ±0.5 dB
TV/DBS, CD, TAPE/MD, VIDEO, 5.1/DVD*
10 Hz - 50 kHz ±1 dB

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO** (MM)	2.5 mV	50 kilohms	74 dB 72 dB* (A, 2.5 mV)
CD, 5.1/DVD*	200 mV		
TAPE/MD, TV/ DBS, VIDEO	150 mV	50 kilohms	82 dB 82 dB* (A, 150 mV)

* '78 IHF

Outputs
TAPE/MD REC OUT:
Voltage 150 mV,
Impedance 10 kilohms
VIDEO AUDIO OUT:
Voltage 150 mV,
Impedance 10 kilohms
WOOFER/MIX AUDIO OUT
Voltage: 2 V
Impedance: 10 kilohms
PHONES: Accepts low and high impedance headphones

Muting Full mute

BASS BOOST +10 dB at 70 Hz

TONE ±8 dB at 100 Hz and 10 kHz

FM tuner section

Tuning range 87.5 - 108.0 MHz

Antenna terminals 75 ohms, unbalanced
300 ohms, balanced
(US, Canadian model)
75 ohms, unbalanced
(EXCEPT model)

Sensitivity Mono: 18.3 dBf, 4.5 µV
Stereo: 38.3 dBf, 45 µV

Usable sensitivity 11.2 dBf, 2 µV (IHF)

S/N Mono: 76 dB
Stereo: 70 dB

Harmonic distortion at Mono: 0.3 %
Stereo: 0.5 %

1 KHz Seperation 45 dB at 1 kHz

Frequency response 30 Hz - 15 kHz $^{+0.5}_{-2}$ dB

Selectivity 60 dB at 400 kHz

— Continued on next page —

FM STEREO/FM-AM RECEIVER

MICROFILM

SONY®

AM tuner section

Tuning range
US , Canadian MODEL:
530 - 1710 kHz
(10kHz STEP)
Australian, Singapore,
Malaysia, Chinese MODEL:
531 - 1602 kHz
(9 kHz STEP)
E, PX, Saudi Arabia MODEL:
531-1602kHz
(9kHz STEP)
530-1620kHz
(10kHz STEP)

Antenna Loop antenna

Usable sensitivity 50 dB/m (at 1,000 kHz
999 kHz)

S/N 54 dB (at 50 mV/m)

Harmonic distortion 0.5 % (50 mV/m,
400 Hz)

Selectivity At 9 kHz: 35 dB
At 10 kHz: 40 dB

Video section

Inputs VIDEO, TV/DBS, 5.1/
DVD*:
1 Vp-p 75 ohms

Outputs VIDEO:
1 Vp-p 75 ohms
MONITOR:
1 Vp-p 75 ohms

General

System Tuner section: PLL
quartz-locked digital
synthesizer system
Preamplifier section:
Low-noise NF type
equalizer
Power amplifier section:
Pure-complimentary
SEPP

Power requirements
US, Canadian :
120 V AC, 60 Hz
E, SaudiArabia, PX :
120/220/240V AC, 50/60Hz
Australian :
240 V AC, 50/60 Hz
Singapore, Malaysia, Chinese :
230V AC, 50/60Hz

Power consumption US, Canadian : 230 W

AC outlets
US, Canadian :
1 switched, total 120 W/1A
Max
EXCEPT :
1 switched, total 100 W

Dimensions 17 x 5 7/8 x 11 5/8 inches
(430 x 148 x 295 mm)

Mass (Approx.) 7.3 kg (16 lb 1 oz)

Supplied accessories
FM wire antenna (1)
AM loop antenna (1)
Remote controller (remote)
(1)
Size AA (R6) batteries (2)

Design and specifications are subject to change without notice.

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

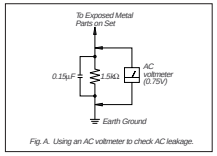
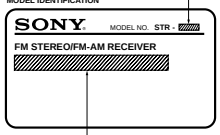


Fig. A. Using an AC voltmeter to check AC leakage.

D460Z
DE515
V505

MODEL IDENTIFICATION



US, Canadian model : AC 120V 60Hz
Australian model : AC 240V ~50/60Hz
E, Saudi Arabia, PX model : AC 120, 220, 240V selectable ~50/60Hz
Singapore, Malaysia, Chinese model : AC 230V ~50/60Hz

SAFETY-RELATED COMPONENT WARNING!!

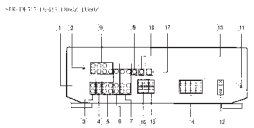
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-LISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

LOCATION AND FUNCTION OF CONTROLS



SECTION 2
EXPLANATION OF IC TERMINALS

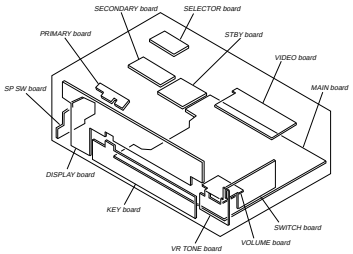
IC201 : µPD78044FGF-041-3B9

Pin No.	Pin Name	I/O	Description
1	DIG7	O	Fluorescent indicator tube drive.
2	DIG6	O	
3	DIG5	O	
4	DIG4	O	
5	DIG3	O	
6	DIG2	O	
7	DIG1	O	
8	+5V	—	Power supply (+5V).
9	S. CLK	I	System clock.
10	S. DATA	I	System data.
11	PLL. DATA	I	PLL data input from TU001.
12	S. CE (LC7288)	O	Chip enable output.
13	S. CE (LV100)	O	Chip enable output.
14	REARRY	I	Input for model slect.
15	BRIDGE CABLE	O	Standby relay ON/OFF control.
16	PROTECT	I	Protector detect input.
17	RESET	I	System reset terminal.
18	AUTO-STOP	I	Auto stop detect input.
19	STEREO-IN	I	Stereo detect input.
20	AVss	—	Ground.
21	SP-RY	O	Speaker relay drive.
22	SURR-RY	O	Surround Relay.
23	POWER-RY	O	Power relay drive.
24	Not used	O	Not used.
25	SIGNAL	I	A/D signal input terminal.
26	A/D3	I	A/D3 key input terminal.
27	A/D2	I	A/D2 key input terminal.
28	A/D1	I	A/D1 key input terminal.
29	AVDD	—	Power supply (+5V).
30	AV. REF	—	Reference voltage (+5V).
31	GND	—	Ground.
32	NC	—	Not used (Open).
33	Vss	—	Ground.
34	X1	—	System clock (4.19MHz).
35	X2	—	System clock (4.19MHz).
36	IC. MUTE	O	Mute drive output for µPD2581V (IC701).
37	PROLOGIC	—	Pilologic LED drive.
38	CSTUDIO	—	CINEMA STUDIO LED drive.
39	HALL	—	Hall LED drive.
40	T. MUTE	O	Tuner mute drive output.

Pin No.	Pin Name	I/O	Description
41	VOLUME UP	O	Volume up.
42	VOLUME DOWN	O	Volume down.
43	STANDBY	—	Standby LED drive.
44	SYS. POWER	I	System power ON/OFF.
45	RDS. DATA. IN	I	RDS data input terminal (EXCEPT Australian, E, Saudi Arabia, PX model).
46	RDS. CLK. IN	I	RDS clock input terminal (EXCEPT Australian, E, Saudi Arabia, PX model).
47	STOP	I	Stop signal input from NJM2103D (IC950).
48	Vss	—	Ground.
49	SIRCS	I	Sircs signal input.
50	POWER SW	I	Power switch input terminal.
51	5.1ch LED	O	5.1ch input LED.
52	+5V	—	Power supply (+5V).
53	BASS BOOST	—	Bass boost LED drive.
54	FUNC. MUTE	O	Line mute drive.
55	SL MUTE	O	Surround Lch mute.
56	VERSION	I	Input for model select.
57	K14	I	Key in 4.
58	K13	I	Key in 3.
59	K12	I	Key in 2.
60	K11	I	Key in 1.
61	SR MUTE	O	Surround Rch mute.
62	S15	O	Key out 1.
63	S14	O	Key out 2.
64	S13	O	Key out 3.
65	S12	O	Key out 4.
66	S11	O	Fluorescent indicator tube drive.
67	S10	O	
68	S9	O	
69	S8	O	
70	S7	O	
71	VLOAD	—	Connect to -24V.
72	S6	O	Fluorescent indicator tube drive.
73	S5	O	
74	S4	O	
75	S3	O	
76	S2	O	
77	S1	O	
78	DIG10	O	Fluorescent indicator tube drive.
79	DIG9	O	
80	DIG8	O	

SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION

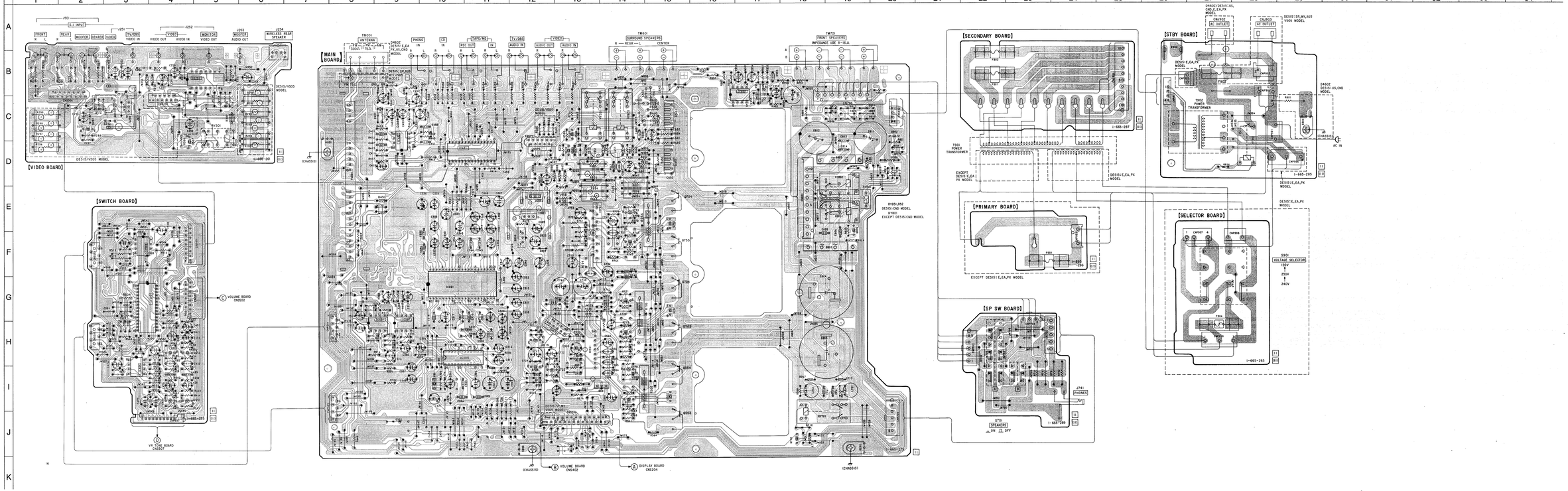


3-2. PRINTED WIRING BOARDS (MAIN SECTION)

• Semiconductor Location

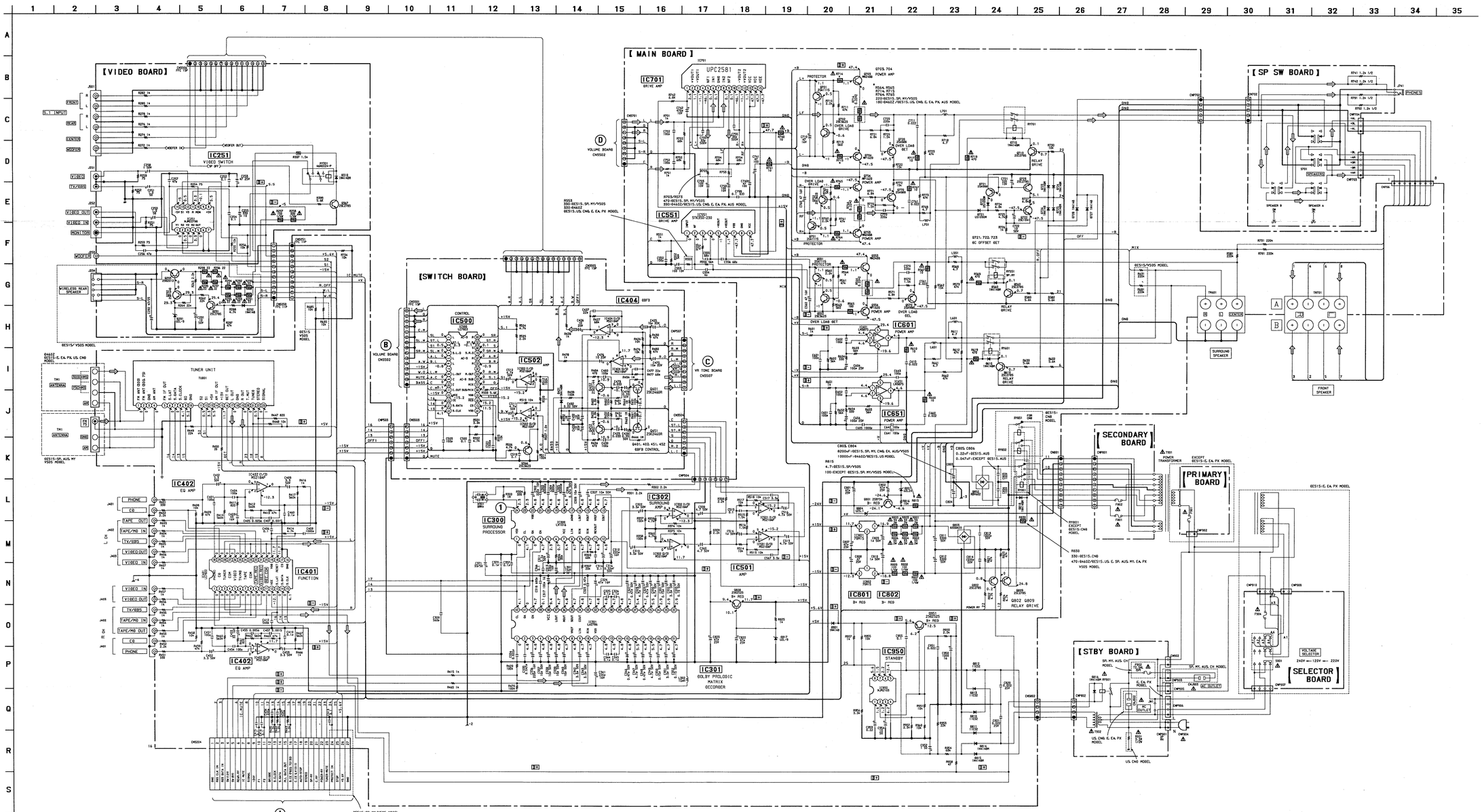
Ref. No.	Location	Ref. No.	Location
D291	C-2	IC651	D-15
D292	C-2	IC701	E-13
D310	C-5	IC801	E-12
D560	C-13	IC802	E-12
D610	D-13	IC950	B-17
D710	J-18		
D721	H-12	Q291	C-2
D722	H-12	Q292	C-3
D723	I-12	Q293	C-3
D724	H-12	Q367	C-4
D725	I-12	Q401	I-4
D726	I-12	Q402	H-4
D727	I-11	Q451	I-5
D728	I-11	Q452	H-5
D801	I-13	Q551	I-14
D802	F-19	Q552	I-15
D803	D-19	Q553	J-15
D804	J-13	Q554	I-15
D810	C-19	Q560	C-13
D811	C-19	Q570	H-14
D812	C-19	Q610	D-13
D813	C-19	Q701	H-14
D814	C-19	Q702	G-15
D815	C-19	Q703	H-15
D816	D-27	Q704	G-15
D817	F-12	Q710	J-18
D818	D-20	Q720	G-14
D901	J-9	Q721	H-12
		Q722	I-13
IC251	B-5	Q723	I-12
IC300	H-10	Q751	F-14
IC301	G-10	Q752	E-15
IC302	G-9	Q753	F-15
IC401	D-10	Q754	E-15
IC402	C-9	Q770	E-14
IC404	H-3	Q801	I-14
IC500	G-4	Q802	C-20
IC501	G-9	Q808	F-12
IC502	F-3	Q809	E-19
IC551	H-13	Q951	B-17
IC601	C-15		

Note:
- ●——: Parts extracted from the component side.
- ▪ ▪▪▪▪: Pattern on the side which is seen.
- Abbreviation
  SP : Singapore
  EA : Saudi Arabia
  MY : Malaysia
  AUS : Australian
  CND : Canadian

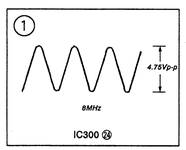


3-3. SCHEMATIC DIAGRAM (MAIN SECTION)

• Refer to page 17 for IC Block Diagrams.



• Waveforms

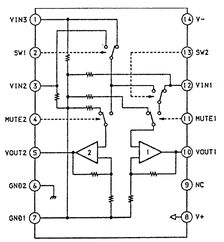


Note:
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : Internal component.
- B+ : B+ Line.
- B- : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  No mark: FM
  ( ) : AM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
- Abbreviation
  SP : Singapore
  EA : Saudi Arabia
  MY : Malaysia
  AUS : Australian
  CND : Canadian
  CH : Chinese

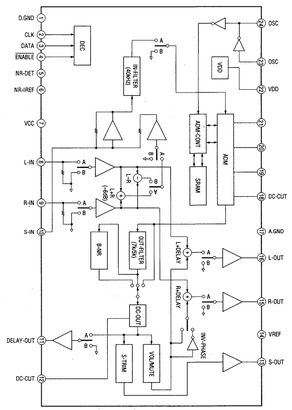
Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• IC BLOCK DIAGRAMS — MAIN SECTION —

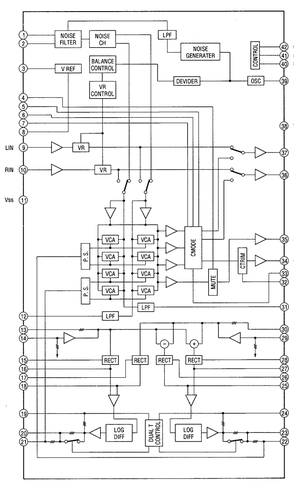
IC251 NJM2279D



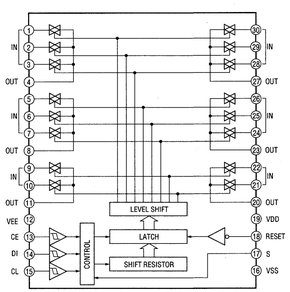
IC300 LV1016



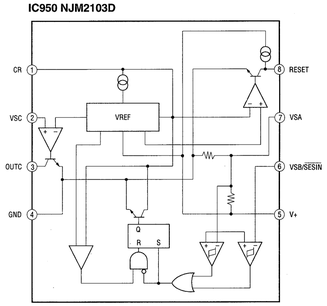
IC301 LA2786



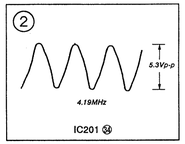
IC401 LC7822



IC950 NJM2103D

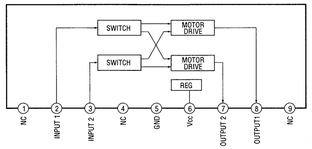


• Waveforms



• IC BLOCK DIAGRAM — DISPLAY SECTION —

IC202 BA6208



Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
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- B+ : B+ Line.
- B– : B– Line.
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- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
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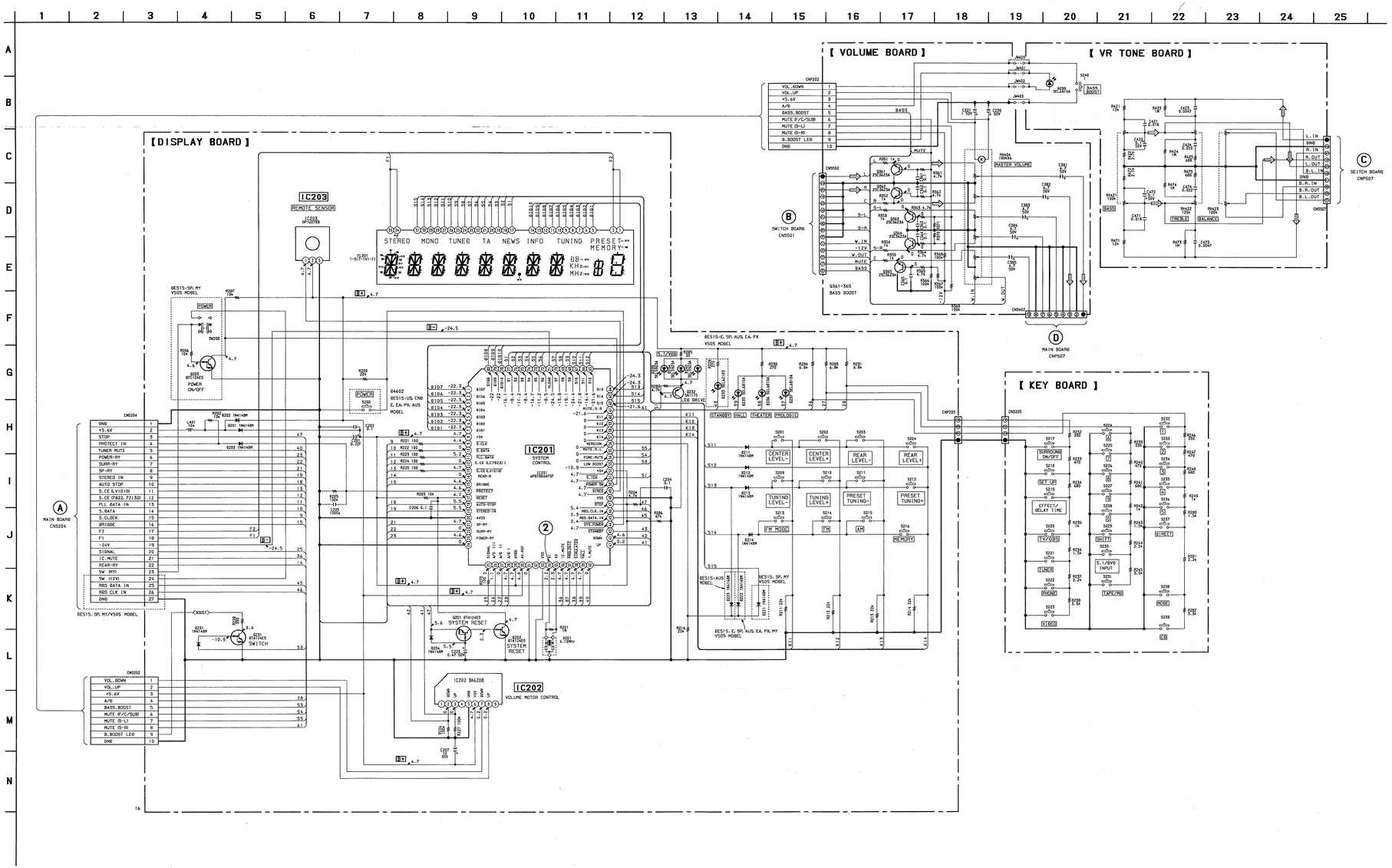
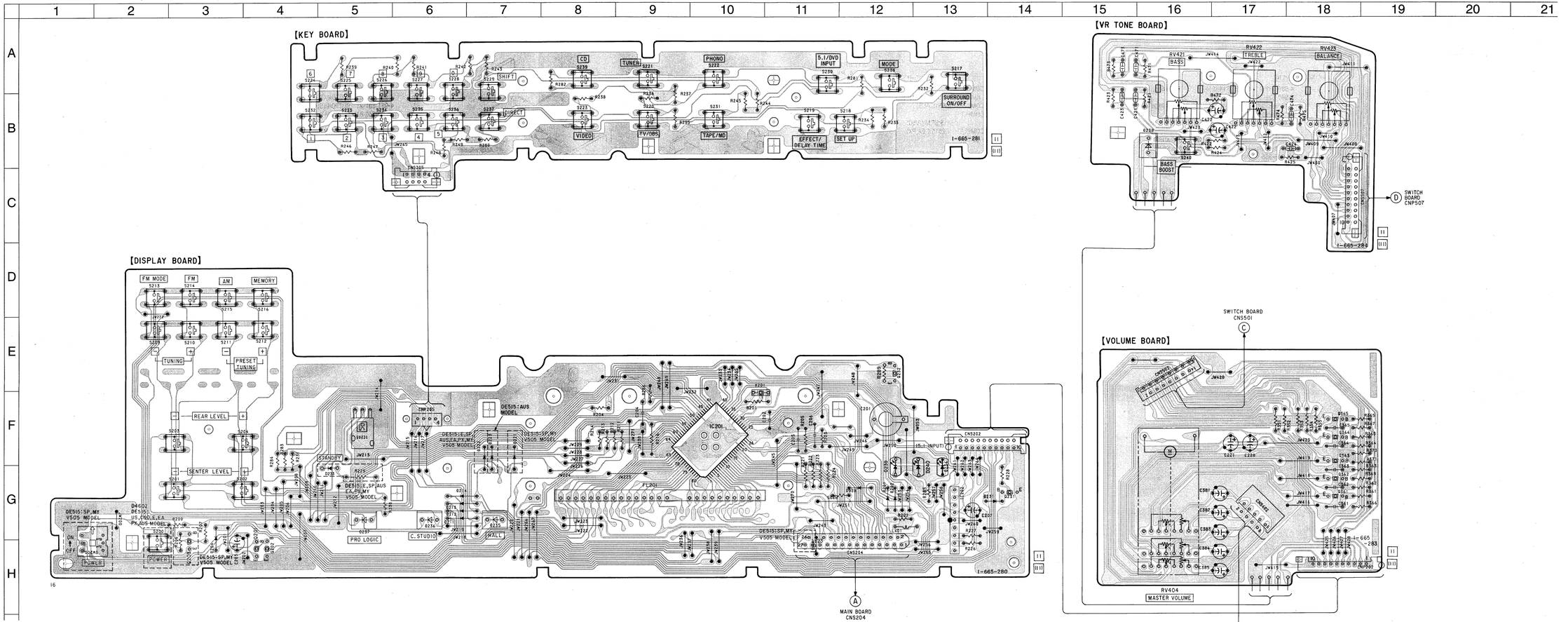
3-4. SCHEMATIC DIAGRAM (DISPLAY SECTION)



3-5. PRINTED WIRING BOARDS (DISPLAY SECTION)



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D201	G-12	D239	G-12
D202	G-12	D240	G-12
D203	G-12		
D204	H-3	IC201	F-10
D211	G-6	IC202	G-13
D212	G-6	IC203	F-5
D213	G-6		
D214	G-6	Q201	H-4
D221	F-7	Q202	H-4
D222	F-7	Q203	H-3
D223	F-7	Q231	G-14
D231	G-13	Q232	E-12
D233	G-5	Q361	G-18
D234	G-13	Q362	G-18
D235	G-7	Q363	G-18
D236	G-6	Q364	F-18
D237	G-5	Q365	F-18
D238	B-16		

Note:
- ⟷ : Parts extracted from the component side.
- ═══ : Pattern on the side which is seen.

• Abbreviation
SP : Singapore
EA : Saudi Arabia
MY : Malaysia
AUS : Australian
CND : Canadian

SECTION 4
EXPLODED VIEWS

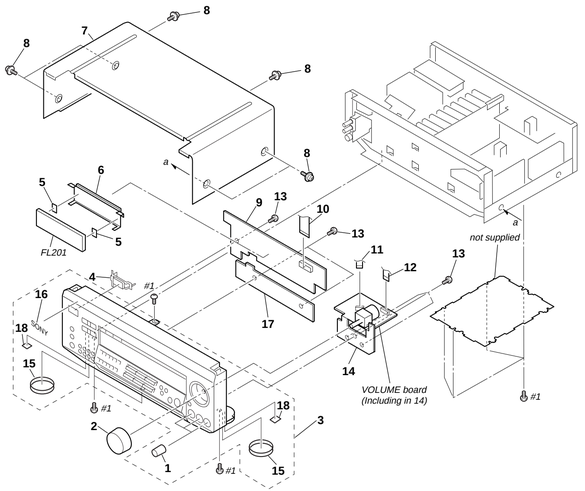
NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts of Color Cabinet's Color
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (#mark) list is given in the last of this parts list.
- Abbreviation
  SP : Singapore AUS : Australian
  CH : Chinese EA : Saudi Arabia
  MY : Malaysia

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

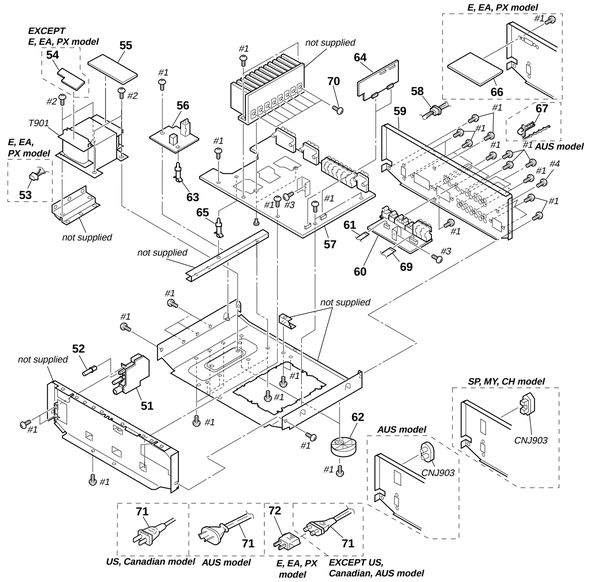
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifie.

4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks
1	4-980-639-01	KNOB (R14)(BLACK)(D460Z/DE515)	
1	4-980-639-31	KNOB (R14)(GOLD)(V505)	
2	X-4946-873-1	KNOB (R48) ASSY (BLACK)(D460Z/DE515)	
2	X-4948-385-1	KNOB ASSY (GOLD)(V505)	
3	X-4948-336-1	PANEL ASSY, FRONT (DE515:US,Canadian)	
3	X-4948-365-1	PANEL ASSY, FRONT (DE515:AUS)	
3	X-4948-366-1	PANEL ASSY, FRONT (DE515:SP,MY)	
3	X-4948-368-1	PANEL ASSY, FRONT (D460Z)	
3	X-4948-386-1	PANEL ASSY, FRONT (V505)	
3	X-4948-472-1	PANEL ASSY, FRONT (DE515:E)	
4	4-980-109-01	BUTTON (P-M)(BLACK) (DE515:SP,MY)	
4	4-980-109-41	BUTTON (P-M)(GOLD) (V505)	
4	4-989-843-01	BUTTON (P-T)(BLACK) (D460Z/DE515:US,Canadian,E,EA,PX,AUS)	
* 5	4-921-941-01	CUSHION (FL)	
* 6	4-943-107-11	HOLDER (FL TUBE)	
* 7	4-980-658-01	CASE (413226)(BLACK)(D460Z/DE515)	
* 7	4-980-658-71	CASE (413226)(GOLD)(V505)	
8	3-704-366-01	SCREW (CASE) (M3X8)(BLACK)(D460Z/DE515)	
8	3-704-366-71	SCREW (CASE)(M3X8)(GOLD) (V505)	
* 9	A-4392-776-A	DISPLAY BOARD, COMPLETE (D460Z/DE515:US,Canadian)	
* 9	A-4392-974-A	DISPLAY BOARD, COMPLETE (DE515:AUS)	
* 9	A-4392-977-A	DISPLAY BOARD, COMPLETE (DE515:SP,MY/V505)	
* 9	A-4392-980-A	DISPLAY BOARD, COMPLETE (DE515:E,EA,PX)	
10	1-782-084-11	WIRE (FLAT TYPE) (23 CORE)	
11	1-782-075-11	WIRE (FLAT TYPE) (9 CORE)	
12	1-782-243-11	WIRE (FLAT TYPE) 15P	
13	4-951-620-01	SCREW (2.6X8), +BVTP	
* 14	A-4392-778-A	VR TONE BOARD, COMPLETE	
15	4-977-593-11	RING (DIA. 50), ORNAMENTAL (SILVER)..(BLACK)(DE515:E,SP,AUS,EA,PX,MY)	
15	4-977-593-21	RING (DIA. 50), ORNAMENTAL (GOLD)...(GOLD) (V505)	
16	3-008-600-11	EMBLEM (5-AR), SONY (SILVER)...(BLACK)(D460Z/DE515)	
16	3-008-600-21	EMBLEM (5-AR), SONY (GOLD)...(GOLD)(V505)	
* 17	A-4392-781-A	KEY BOARD, COMPLETE	
18	4-977-358-11	CUSHION (8X12.5)	
FL201	1-517-141-11	INDICATOR TUBE, FLUORESCENT	

4-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remarks
* 51	1-665-289-11	SP SW BOARD	
52	4-951-801-01	BUTTON (S)(BLACK)(D460Z/DE515)	
52	4-951-801-21	BUTTON (S)(GOLD)(V505)	
53	1-769-746-61	LEAD (WITH CONNECTOR) (2 CORE) (DE515:E,EA,PX)	
* 54	1-665-286-11	PRIMARY BOARD (D460Z/DE515:US,Canadian,SP,MY,AUS/V505)	
* 55	1-665-287-11	SECONDARY BOARD	
* 56	1-665-285-11	STBY BOARD	
* 57	A-4392-785-A	MAIN BOARD, COMPLETE (DE515:US)	
* 57	A-4392-973-A	MAIN BOARD, COMPLETE (DE515:Canadian)	
* 57	A-4392-976-A	MAIN BOARD, COMPLETE (DE515:AUS)	
* 57	A-4392-979-A	MAIN BOARD, COMPLETE (DE515:SP,MY)	
* 57	A-4392-983-A	MAIN BOARD, COMPLETE (DE515:E,EA,PX)	
* 57	A-4392-984-A	MAIN BOARD, COMPLETE (D460Z)	
* 57	A-4398-839-A	MAIN BOARD, COMPLETE (V505)	
* 58	3-703-244-00	BUSHING (2104), CORD	
* 59	4-989-899-01	PANEL, BACK (DE515:US)	
* 59	4-989-899-11	PANEL, BACK (DE515:Canadian)	
* 59	4-989-899-21	PANEL, BACK (DE515:AUS)	
* 59	4-989-899-31	PANEL, BACK (DE515:E,EA,PX)	
* 59	4-989-899-41	PANEL, BACK (DE515:SP,MY)	
* 59	4-989-899-51	PANEL, BACK (D460Z)	
* 59	4-989-899-71	PANEL, BACK (V505)	
* 60	1-665-261-11	VIDEO BOARD	
61	1-782-077-11	WIRE (FLAT TYPE) (11 CORE)	
62	X-4947-207-1	FOOT ASSY (F50150S) (DE515:E,EA,PX,SP,AUS)	
62	X-4947-208-1	FOOT ASSY (F50150S) (D460Z/DE515:US,Canadian)	
62	X-4947-547-1	FOOT ASSY (F50150S) (V505)	
* 63	4-924-098-21	HOLDER, PC BOARD	
* 64	A-4392-780-A	SWITCH BOARD, COMPLETE	
65	4-924-098-01	HOLDER, PC BOARD	
* 66	1-665-263-11	SELECTOR BOARD (DE515:E,EA,PX)	
67	4-956-370-12	BAND, PLUG FIXED (DE515:AUS)	
69	1-782-244-11	WIRE (FLAT TYPE) 15P	
70	3-905-609-01	SCREW (TRANSISTOR)	
⚠71	1-696-847-11	CORD, POWER (AUS)	
⚠71	1-777-070-11	CORD, POWER (US, Cnadian)	
⚠71	1-777-071-11	CORD, POWER (E,SP,EA,PX,MY,CH)	
72	1-569-008-21	ADAPTOR, CONVERSION 2P (E,EA,PX)	
⚠CNJ903	1-251-416-11	OUTLET, A.C. (AUS)	
⚠CNJ903	1-526-794-11	OUTLET, A.C. (SP,MY,CH)	
⚠T901	1-431-267-11	TRANSFORMER, POWER (US)	
⚠T901	1-431-268-11	TRANSFORMER, POWER (Canadian)	
⚠T901	1-431-269-11	TRANSFORMER, POWER (SP,MY,CH)	
⚠T901	1-431-270-11	TRANSFORMER, POWER (AUS)	
⚠T901	1-431-271-11	TRANSFORMER, POWER (E,EA,PX)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifie.

SECTION 5
ELECTRICAL PARTS LIST

DISPLAY

NOTE:

When indicating parts by reference number, please include the board naame.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifie.

SP : Singapore EA : Saudi Arabia
AUS : Australian MY : Malaysia
CH : Chinese

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

Ref. No.	Part No.	Description	Remarks
*	A-4392-776-A	DISPLAY BOARD, COMPLETE (D460Z/DE515: ********** US,Canadian)	
*	A-4392-980-A	DISPLAY BOARD, COMPLETE (DE515:E,EA,PX) **********	
*	A-4392-977-A	DISPLAY BOARD, COMPLETE (DE515:SP,MY/V505) **********	
*	A-4392-974-A	DISPLAY BOARD, COMPLETE (DE515:AUS) **********	
*	4-921-941-01	CUSHION (FL)	
*	4-943-107-11	HOLDER (FL TUBE)	
		< CAPACITOR >	
C201	1-104-905-11	CAPACITOR 0.22F 5.5V	
C202	1-164-159-11	CERAMIC 0.1uF 50V	
C203	1-124-465-00	ELECT 0.47uF 20% 50V	
C204	1-164-159-11	CERAMIC 0.1uF 50V	
C205	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C206	1-164-159-11	CERAMIC 0.1uF 50V	
C207	1-126-096-11	ELECT 10uF 20% 35V	
		< CONNECTOR >	
CNP205	1-779-366-11	CONNECTOR, BOARD TO BOARD 4P (D460Z/DE515:US,Canadian)	
CNS202	1-770-403-11	HOUSING,CONNECTOR(PC BOARD)10P	
CNS204	1-568-742-11	SOCKET, CONNECTOR 23P (D460Z/DE515:US,Canadian,E,EA,PX,AUS)	
CNS204	1-569-327-11	SOCKET, CONNECTOR 27P (DE515:SP,MY/V505)	
		< DIODE >	
D201	8-719-987-63	DIODE 1N4148M	
D202	8-719-987-63	DIODE 1N4148M	
D203	8-719-987-63	DIODE 1N4148M	
D204	8-719-987-63	DIODE 1N4148M	
D211	8-719-987-63	DIODE 1N4148M	
D212	8-719-987-63	DIODE 1N4148M	
D213	8-719-987-63	DIODE 1N4148M	
D214	8-719-987-63	DIODE 1N4148M	
D221	8-719-987-63	DIODE 1N4148M (DE515:SP,MY/V505)	
D222	8-719-987-63	DIODE 1N4148M (DE515:E,SP,AUS,EA,PX,MY/V505)	
D223	8-719-987-63	DIODE 1N4148M (DE515:AUS)	
D231	8-719-987-63	DIODE 1N4148M	
D233	8-719-313-48	DIODE SEL6210S-TH12 (STANDBY) (DE515:E,SP,AUS,EA,PX,MY/V505)	
D234	8-719-057-97	DIODE SEL5923A (5.1/DVD)	
D235	8-719-313-50	DIODE SEL6810A-TH12 (HALL)	
D236	8-719-313-50	DIODE SEL6810A-TH12 (C.STUDIO)	
D237	8-719-313-50	DIODE SEL6810A-TH12 (PRO LOGIC)	
D291	8-719-001-30	DIODE UZL-9H3	
D239	8-719-057-97	DIODE SEL5923 (5.1/DVD)	
D240	8-719-057-97	DIODE SEL5923 (5.1/DVD)	
		< FILTER >	
FL201	1-517-141-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC201	8-759-462-31	IC uPD78044FGF-041-3B9	
IC202	8-759-962-08	IC BA6208	
IC203	8-759-332-18	IC GP1U27XB (REMOTE SENSOR)	
		< COIL >	
L401	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q201	8-729-900-63	TRANSISTOR DTA124ES	
Q202	8-729-900-36	TRANSISTOR DTC124ES	
Q203	8-729-900-36	TRANSISTOR DTC124ES (DE515:SP,MY/V505)	
Q231	8-729-900-36	TRANSISTOR DTC124ES	
Q232	8-729-900-36	TRANSISTOR DTC124ES	
		< RESISTOR >	
R200	1-249-433-11	CARBON 22K 5% 1/4W	
R201	1-247-903-00	CARBON 1M 5% 1/4W	
R202	1-249-429-11	CARBON 10K 5% 1/4W	
R203	1-249-429-11	CARBON 10K 5% 1/4W	
R204	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R205	1-249-441-11	CARBON 100K 5% 1/4W	
R206	1-249-429-11	CARBON 10K 5% 1/4W (DE515:SP,MY/V505)	
R207	1-249-429-11	CARBON 10K 5% 1/4W	
R211	1-249-433-11	CARBON 22K 5% 1/4W	
R212	1-249-433-11	CARBON 22K 5% 1/4W	
R213	1-249-433-11	CARBON 22K 5% 1/4W	
R214	1-249-433-11	CARBON 22K 5% 1/4W	
R216	1-249-433-11	CARBON 22K 5% 1/4W	
R221	1-247-807-31	CARBON 100 5% 1/4W	
R222	1-247-807-31	CARBON 100 5% 1/4W	
R223	1-247-807-31	CARBON 100 5% 1/4W	
R224	1-247-807-31	CARBON 100 5% 1/4W	
R225	1-247-807-31	CARBON 100 5% 1/4W	
R226	1-249-441-11	CARBON 100K 5% 1/4W	
R227	1-249-441-11	CARBON 100K 5% 1/4W	

DISPLAY KEY MAIN

Ref. No.	Part No.	Description			Remarks
R228	1-249-412-11	CARBON	390	5% 1/4W	F
R229	1-249-410-11	CARBON	270	5% 1/4W	F
		(DE515:E,SP,AUS,EA,PX,MY/V505)			
R230	1-249-410-11	CARBON	270	5% 1/4W	F
R231	1-249-427-11	CARBON	6.8K	5% 1/4W	F
R262	1-247-839-11	CARBON	2.2K	5% 1/4W	
R283	1-249-427-11	CARBON	6.8K	5% 1/4W	F
R284	1-249-427-11	CARBON	6.8K	5% 1/4W	F
R285	1-249-399-11	CARBON	33	5% 1/4W	F
R286	1-249-437-11	CARBON	47K	5% 1/4W	
R270	1-247-807-31	CARBON	100	5% 1/4W	
		< SWITCH >			
S200	1-762-751-11	SWITCH, TACTILE (POWER)			
		(D460Z/DE515:US,Canadian,E,EA,PX,AUS)			
S201	1-762-751-11	SWITCH, TACTILE (CENTER LEVEL –)			
S202	1-762-751-11	SWITCH, TACTILE (CENTER LEVEL +)			
S203	1-762-751-11	SWITCH, TACTILE (REAR LEVEL –)			
S204	1-762-751-11	SWITCH, TACTILE (REAR LEVEL +)			
S209	1-762-751-11	SWITCH, TACTILE (TUNING LEVEL –)			
S210	1-762-751-11	SWITCH, TACTILE (TUNING LEVEL +)			
S211	1-762-751-11	SWITCH, TACTILE (PRESET TUNING –)			
S212	1-762-751-11	SWITCH, TACTILE (PRESET TUNING +)			
S213	1-762-751-11	SWITCH, TACTILE (FM MODE)			
S214	1-762-751-11	SWITCH, TACTILE (FM)			
S215	1-762-751-11	SWITCH, TACTILE (AM)			
S216	1-762-751-11	SWITCH, TACTILE (MEMORY)			
SW200	1-771-054-11	SWITCH, PUSH (1 KEY) (POWER)			
		(DE515:SP,MY/V505)			
		< VIBRATOR >			
X201	1-577-101-11	VIBRATOR, CERAMIC 4.19MHz			
**********					
*	A-4392-781-A	KEY BOARD, COMPLETE			
		**********			
		< CONNECTOR >			
CNS205	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P			
		< RESISTOR >			
R232	1-249-411-11	CARBON	330	5% 1/4W	
R233	1-249-413-11	CARBON	470	5% 1/4W	F
R234	1-249-415-11	CARBON	680	5% 1/4W	F
R235	1-249-417-11	CARBON	1K	5% 1/4W	F
R236	1-249-419-11	CARBON	1.5K	5% 1/4W	F
R237	1-249-421-11	CARBON	2.2K	5% 1/4W	F
R238	1-247-843-11	CARBON	3.3K	5% 1/4W	
R239	1-249-411-11	CARBON	330	5% 1/4W	
R240	1-249-413-11	CARBON	470	5% 1/4W	F
R241	1-249-415-11	CARBON	680	5% 1/4W	F
R242	1-249-417-11	CARBON	1K	5% 1/4W	F
R243	1-249-419-11	CARBON	1.5K	5% 1/4W	F
R244	1-249-421-11	CARBON	2.2K	5% 1/4W	F
R245	1-247-843-11	CARBON	3.3K	5% 1/4W	
R246	1-249-411-11	CARBON	330	5% 1/4W	
R247	1-249-413-11	CARBON	470	5% 1/4W	F
R248	1-249-415-11	CARBON	680	5% 1/4W	F
R249	1-249-417-11	CARBON	1K	5% 1/4W	F
R280	1-249-419-11	CARBON	1.5K	5% 1/4W	F
R281	1-249-421-11	CARBON	2.2K	5% 1/4W	F
R282	1-247-843-11	CARBON	3.3K	5% 1/4W	
		< SWITCH >			
S217	1-762-751-11	SWITCH, TACTILE (SURROUND ON/OFF)			
S218	1-762-751-11	SWITCH, TACTILE (SET UP)			
S219	1-762-751-11	SWITCH, TACTILE (EFFECT/DELAY TIME)			
S220	1-762-751-11	SWITCH, TACTILE (TV/DBS)			
S221	1-762-751-11	SWITCH, TACTILE (TUNER)			
S222	1-762-751-11	SWITCH, TACTILE (PHONE)			
S223	1-762-751-11	SWITCH, TACTILE (VIDEO)			
S224	1-762-751-11	SWITCH, TACTILE (6)			
S225	1-762-751-11	SWITCH, TACTILE (7)			
S226	1-762-751-11	SWITCH, TACTILE (8)			
S227	1-762-751-11	SWITCH, TACTILE (9)			
S228	1-762-751-11	SWITCH, TACTILE (0)			
S229	1-762-751-11	SWITCH, TACTILE (SHIFT)			
S230	1-762-751-11	SWITCH, TACTILE (5.1/DVD INPUT)			
S231	1-762-751-11	SWITCH, TACTILE (TAPE/MD)			
S232	1-762-751-11	SWITCH, TACTILE (1)			
S233	1-762-751-11	SWITCH, TACTILE (2)			
S234	1-762-751-11	SWITCH, TACTILE (3)			
S235	1-762-751-11	SWITCH, TACTILE (4)			
S236	1-762-751-11	SWITCH, TACTILE (5)			
S237	1-762-751-11	SWITCH, TACTILE (DIRECT)			
S238	1-762-751-11	SWITCH, TACTILE (MODE)			
S239	1-762-751-11	SWITCH, TACTILE (CD)			
**********					
*	A-4398-839-A	MAIN BOARD, COMPLETE (V505)			
		**********			
*	A-4392-976-A	MAIN BOARD, COMPLETE (DE515:AUS)			
		**********			
*	A-4392-979-A	MAIN BOARD, COMPLETE (DE515:SP,MY)			
		**********			
*	A-4392-984-A	MAIN BOARD, COMPLETE (D460Z)			
		**********			
*	A-4392-785-A	MAIN BOARD, COMPLETE (DE515:US)			
		**********			
*	A-4392-973-A	MAIN BOARD, COMPLETE (DE515:Canadian)			
		**********			
*	A-4392-983-A	MAIN BOARD, COMPLETE (DE515:E,EA,PX)			
		**********			
	3-905-609-01	SCREW (TRANSISTOR)			
	4-812-134-00	RIVET (DIA. 3.5), NYLON			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
	7-685-872-09	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C302	1-126-934-11	ELECT	220uF	20% 16V	
C303	1-130-494-11	MYLAR	0.082uF	5% 50V	
C304	1-137-367-11	FILM	0.0033uF	5% 50V	
C305	1-130-494-11	MYLAR	0.082uF	5% 50V	
C306	1-126-959-11	ELECT	0.47uF	20% 50V	
C307	1-126-964-11	ELECT	10uF	20% 50V	
C308	1-126-964-11	ELECT	10uF	20% 50V	
C309	1-162-291-31	CERAMIC	560PF	10% 50V	
C310	1-126-962-11	ELECT	3.3uF	20% 50V	
C311	1-126-961-11	ELECT	2.2uF	20% 50V	
C312	1-126-934-11	ELECT	220uF	20% 16V	
C313	1-126-934-11	ELECT	220uF	20% 16V	
C314	1-136-165-00	FILM	0.1uF	5% 50V	
C316	1-124-252-00	ELECT	0.33uF	20% 50V	
C317	1-126-933-11	ELECT	100uF	20% 16V	

Ref. No.	Part No.	Description			Remarks
C318	1-137-363-91	FILM	680PF	5%	50V
C322	1-126-962-11	ELECT	3.3uF	20%	50V
C323	1-136-173-00	FILM	0.47uF	5%	50V
C324	1-126-967-11	ELECT	47uF	20%	16V
C325	1-136-165-00	FILM	0.1uF	5%	50V
C326	1-136-165-00	FILM	0.1uF	5%	50V
C327	1-126-959-11	ELECT	0.47uF	20%	50V
C328	1-126-963-11	ELECT	4.7uF	20%	50V
C329	1-126-959-11	ELECT	0.47uF	20%	50V
C330	1-126-963-11	ELECT	4.7uF	20%	50V
C331	1-124-250-11	ELECT	0.15uF	20%	50V
C332	1-126-962-11	ELECT	3.3uF	20%	50V
C333	1-124-250-11	ELECT	0.15uF	20%	50V
C334	1-137-372-11	FILM	0.022uF	5%	50V
C335	1-136-161-00	FILM	0.047uF	5%	50V
C336	1-126-934-11	ELECT	220uF	20%	16V
C337	1-126-964-11	ELECT	10uF	20%	50V
C338	1-126-964-11	ELECT	10uF	20%	50V
C339	1-126-964-11	ELECT	10uF	20%	50V
C340	1-126-964-11	ELECT	10uF	20%	50V
C341	1-126-934-11	ELECT	220uF	20%	16V
C342	1-126-962-11	ELECT	3.3uF	20%	50V
C343	1-126-962-11	ELECT	3.3uF	20%	50V
C344	1-136-165-00	FILM	0.1uF	5%	50V
C345	1-136-165-00	FILM	0.1uF	5%	50V
C346	1-126-959-11	ELECT	0.47uF	20%	50V
C347	1-126-963-11	ELECT	4.7uF	20%	50V
C348	1-126-959-11	ELECT	0.47uF	20%	50V
C349	1-126-963-11	ELECT	4.7uF	20%	50V
C350	1-124-250-11	ELECT	0.15uF	20%	50V
C351	1-126-962-11	ELECT	3.3uF	20%	50V
C352	1-124-250-11	ELECT	0.15uF	20%	50V
C357	1-164-159-11	CERAMIC	0.1uF		50V
C359	1-126-963-11	ELECT	4.7uF	20%	50V
C360	1-126-963-11	ELECT	4.7uF	20%	50V
C365	1-126-966-11	ELECT	33uF	20%	16V
			(DE515:E,SP,EA,PX,MY/V505)		
C366	1-164-159-11	CERAMIC	0.1uF		50V
C370	1-164-159-11	CERAMIC	0.1uF		50V
C371	1-126-966-11	ELECT	33uF	20%	16V
C401	1-162-282-31	CERAMIC	100PF	10%	50V
C402	1-126-962-11	ELECT	3.3uF	20%	50V
C403	1-126-966-11	ELECT	33uF	20%	16V
C404	1-162-282-31	CERAMIC	100PF	10%	50V
C405	1-137-459-11	FILM	0.0056uF	5%	100V
C406	1-164-159-11	CERAMIC	0.1uF		50V
C407	1-137-365-11	FILM	0.0015uF	5%	50V
C408	1-162-294-31	CERAMIC	0.001uF	10%	50V
C409	1-126-962-11	ELECT	3.3uF	20%	50V
C410	1-164-159-11	CERAMIC	0.1uF		50V
C412	1-162-291-31	CERAMIC	560PF	10%	50V
C413	1-164-159-11	CERAMIC	0.1uF		50V
C415	1-164-159-11	CERAMIC	0.1uF		50V
C416	1-164-159-11	CERAMIC	0.1uF		50V
C434	1-162-286-31	CERAMIC	220PF	10%	50V
C435	1-162-286-31	CERAMIC	220PF	10%	50V

Ref. No.	Part No.	Description			Remarks
C451	1-162-282-31	CERAMIC	100PF	10%	50V
C452	1-126-962-11	ELECT	3.3uF	20%	50V
C453	1-126-966-11	ELECT	33uF	20%	16V
C454	1-162-282-31	CERAMIC	100PF	10%	50V
C455	1-137-459-11	FILM	0.0056uF	5%	100V
C457	1-137-365-11	FILM	0.0015uF	5%	50V
C459	1-126-962-11	ELECT	3.3uF	20%	50V
C460	1-164-159-11	CERAMIC	0.1uF		50V
C513	1-126-963-11	ELECT	4.7uF	20%	50V
C514	1-126-960-11	ELECT	1uF	20%	50V
C515	1-164-159-11	CERAMIC	0.1uF		50V
C516	1-126-963-11	ELECT	4.7uF	20%	50V
C517	1-162-193-11	CERAMIC	3.3PF	10%	50V
C552	1-162-282-31	CERAMIC	100PF	10%	50V
C553	1-126-933-11	ELECT	100uF	20%	10V
C554	1-164-040-11	CERAMIC	4PF	0.25PF	50V
C555	1-102-989-00	CERAMIC	68PF	5%	500V
C556	1-102-989-00	CERAMIC	68PF	5%	500V
C560	1-126-967-11	ELECT	47uF	20%	16V
C561	1-137-372-11	FILM	0.022uF	5%	50V
C567	1-162-193-11	CERAMIC	3.3P	10%	50V
C570	1-162-286-31	CERAMIC	220PF	10%	50V
C601	1-162-282-31	CERAMIC	100PF	10%	50V
C602	1-162-282-31	CERAMIC	100PF	10%	50V
C604	1-126-933-11	ELECT	100uF	20%	10V
C605	1-162-294-31	CERAMIC	0.001uF	10%	50V
C610	1-137-372-11	FILM	0.022uF	5%	50V
C641	1-162-282-31	CERAMIC	100PF	10%	50V
C642	1-162-282-31	CERAMIC	100PF	10%	50V
C643	1-162-282-31	CERAMIC	100PF	10%	50V
C651	1-162-282-31	CERAMIC	100PF	10%	50V
C652	1-162-282-31	CERAMIC	100PF	10%	50V
C654	1-126-933-11	ELECT	100uF	20%	10V
C660	1-137-372-11	FILM	0.022uF	5%	50V
C702	1-162-282-31	CERAMIC	100PF	10%	50V
C703	1-126-933-11	ELECT	100uF	20%	10V
C705	1-102-233-00	CERAMIC	33PF	10%	500V
C710	1-126-967-11	ELECT	47uF	20%	16V
C711	1-137-372-11	FILM	0.022uF	5%	50V
C720	1-162-286-31	CERAMIC	220PF	10%	50V
C721	1-126-923-11	ELECT	220uF	20%	10V
C722	1-126-964-11	ELECT	10uF	20%	50V
C740	1-128-562-11	ELECT	47uF	20%	100V
C741	1-128-562-11	ELECT	47uF	20%	100V
C742	1-126-925-11	ELECT	470uF	20%	10V
C752	1-162-282-31	CERAMIC	100PF	10%	50V
C753	1-126-933-11	ELECT	100uF	20%	10V
C755	1-102-233-00	CERAMIC	33PF	10%	500V
C760	1-126-967-11	ELECT	47uF	20%	16V
C761	1-137-372-11	FILM	0.022uF	5%	50V
C770	1-162-286-31	CERAMIC	220PF	10%	50V
C799	1-164-159-11	CERAMIC	0.1uF		50V
C801	1-104-664-11	ELECT	47uF	20%	25V
C802	1-104-664-11	ELECT	47uF	20%	25V
C803	1-125-556-11	ELECT(BLOCK)	8200uF	20%	56V
					(DE515:SP/V505)
C803	1-107-766-11	ELECT	8200uF	20%	71V
					(DE515:Canadian,E,EA,PX,AUS)
C803	1-109-932-11	ELECT	10000uF	20%	71V
					(D460Z/DE515:US)

MAIN

Ref. No.	Part No.	Description	Remarks
C804	1-125-556-11	ELECT(BLOCK) 8200uF 20% 56V	(DE515:SP,MY/V505)
C804	1-107-766-11	ELECT 8200uF 20% 71V	(DE515:Canadian,E,EA,PX,AUS)
C804	1-109-932-11	ELECT 10000uF 20% 71V	(D460Z/DE515:US)
C805	1-130-781-00	FILM 0.22uF 10% 100V	(DE515:AUS)
C805	1-137-420-11	FILM 0.047uF 10% 100V	(D460Z/DE515:US,Canadian,E,SP,EA,PX,MY/V505)
C806	1-130-781-00	FILM 0.22uF 10% 100V	(DE515:AUS)
C806	1-137-420-11	FILM 0.047uF 10% 100V	(D460Z/DE515:US,Canadian,E,SP,EA,PX,MY/V505)
C807	1-104-664-11	ELECT 47uF 20% 25V	
C808	1-104-664-11	ELECT 47uF 20% 25V	
C809	1-126-960-11	ELECT 1uF 20% 50V	
C810	1-126-960-11	ELECT 1uF 20% 50V	
C811	1-126-974-11	ELECT 3300uF 20% 50V	
C812	1-126-974-11	ELECT 3300uF 20% 50V	
C813	1-101-001-00	CERAMIC 0.001uF 50V	
C814	1-101-001-00	CERAMIC 0.001uF 50V	
C820	1-161-494-00	CERAMIC 0.022uF 25V	
C821	1-161-494-00	CERAMIC 0.022uF 25V	
C822	1-104-664-11	ELECT 47uF 20% 25V	
C823	1-104-664-11	ELECT 47uF 20% 25V	
C950	1-126-767-11	ELECT 1000uF 20% 16V	
C951	1-164-097-11	CERAMIC 0.022uF 50V	
C952	1-126-960-11	ELECT 1uF 20% 50V	
C953	1-124-464-11	ELECT 0.22uF 20% 50V	
C954	1-126-795-11	ELECT 10uF 20% 50V	
C955	1-164-159-11	CERAMIC 0.1uF 50V	
		< CONNECTOR >	
CNP503	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P	
CNP504	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P	
CNP702	1-764-474-11	PIN, CONNECTOR (PC BOARD) 5P	
CNS204	1-569-327-11	SOCKET, CONNECTOR 27P(DE515:SP,MY/V505)	
CNS204	1-568-742-11	SOCKET, CONNECTOR 23P (D460Z/DE515:US,Canadian,E,AUS,EA,PX)	
CNS251	1-569-060-11	SOCKET, CONNECTOR 11P	
CNS701	1-568-442-11	SOCKET, CONNECTOR 9P	
CNS802	1-770-480-12	SOCKET, CONNECTOR PIN 4P	
		< DIODE >	
D560	8-719-987-63	DIODE 1N4148M	
D610	8-719-987-63	DIODE 1N4148M	
D710	8-719-987-63	DIODE 1N4148M	
D721	8-719-815-85	DIODE 1S1585	
D722	8-719-815-85	DIODE 1S1585	
D723	8-719-987-63	DIODE 1N4148M	
D724	8-719-987-63	DIODE 1N4148M	
D725	8-719-987-63	DIODE 1N4148M	
D726	8-719-987-63	DIODE 1N4148M	
D727	8-719-987-63	DIODE 1N4148M	
D728	8-719-987-63	DIODE 1N4148M	
D801	8-719-002-33	DIODE UZL-24L	
D802	8-719-302-38	DIODE RBV-602-01	
D803	8-719-028-23	DIODE D3SBA20-4101	
D804	8-719-010-38	DIODE UZ-5.1BSB	

Ref. No.	Part No.	Description	Remarks
D810	8-719-024-99	DIODE 11ES2-NTA2B	
D811	8-719-024-99	DIODE 11ES2-NTA2B	
D812	8-719-024-99	DIODE 11ES2-NTA2B	
D813	8-719-024-99	DIODE 11ES2-NTA2B	
D814	8-719-987-63	DIODE 1N4148M	
D815	8-719-987-63	DIODE 1N4148M	
D817	8-719-001-30	DIODE UZL-9H3	
D818	8-719-987-63	DIODE 1N4148M	
D901	8-719-987-63	DIODE 1N4148M	
		< TERMINAL >	
* G200	1-537-738-21	TERMINAL, EARTH	
* G201	1-537-738-21	TERMINAL, EARTH	
* G202	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC300	8-759-442-97	IC LV1016	
IC301	8-759-442-96	IC LA2786	
IC302	8-759-636-74	IC M5218AP-22	
IC401	8-759-805-14	IC LC7822	
IC402	8-759-636-74	IC M5218AP-22	
IC501	8-759-636-74	IC M5218AP-22	
IC551	8-749-011-16	IC STK350-230	
IC601	8-759-085-89	IC LM3875-S	
IC651	8-759-085-89	IC LM3875-S	
IC701	8-759-326-52	IC uPC2581V	
IC801	8-759-604-40	IC TA7812S	
IC802	8-759-604-46	IC M5F79M12L	
IC950	8-759-333-83	IC NJM2103D	
		< JACK >	
J401	1-770-614-11	JACK, PIN 4P (PHONO/CD)	
J402	1-580-825-11	JACK, PIN 6P (TAPE/MD, TV DBS AUDIO IN)	
J403	1-770-613-11	JACK, PIN 4P (VIDEO)	
		< COIL >	
L301	1-410-509-11	INDUCTOR 10uH	
L302	1-410-509-11	INDUCTOR 10uH	
L551	1-420-872-00	COIL, AIR-CORE	
L601	1-420-872-00	COIL, AIR-CORE	
L651	1-420-872-00	COIL, AIR-CORE	
L701	1-420-872-00	COIL, AIR-CORE	
L751	1-420-872-00	COIL, AIR-CORE	
		< TRANSISTOR >	
Q551	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q552	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q553	8-749-010-25	IC MN2488-OPY-M	
Q554	8-749-010-26	IC MP1620-OPY-M	
Q560	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q570	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q610	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q702	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q703	8-749-010-25	IC MN2488-OPY-M	
Q704	8-749-010-26	IC MP1620-OPY-M	
Q710	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q720	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q721	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q722	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	

Ref. No.	Part No.	Description				Remarks
Q723	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q751	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q752	8-729-141-30	TRANSISTOR 2SC3623A-LK				
Q753	8-749-010-25	IC MN2488-OPY-M				
Q754	8-749-010-26	IC MP1620-OPY-M				
Q770	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				
Q801	8-729-140-97	TRANSISTOR 2SB734-34				
Q802	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q808	8-729-030-18	TRANSISTOR 2SD809-K				
Q809	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q951	8-729-030-18	TRANSISTOR 2SD809-K				
		< RESISTOR >				
R300	1-247-903-00	CARBON	1M	5%	1/4W	
R301	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R302	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R303	1-249-439-11	CARBON	68K	5%	1/4W	
R304	1-249-411-11	CARBON	330	5%	1/4W	
R306	1-249-436-11	CARBON	39K	5%	1/4W	
R307	1-247-862-11	CARBON	20K	5%	1/4W	
R308	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R309	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R357	1-249-441-11	CARBON	100K	5%	1/4W	
R358	1-249-441-11	CARBON	100K	5%	1/4W	
R359	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R360	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R363	1-249-411-11	CARBON	330	5%	1/4W	(DE515:SP,MY/V505)
R372	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R373	1-249-417-11	CARBON	1K	5%	1/4W	F
R374	1-249-429-11	CARBON	10K	5%	1/4W	
R375	1-249-429-11	CARBON	10K	5%	1/4W	
R401	1-249-411-11	CARBON	330	5%	1/4W	
R402	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R403	1-249-417-11	CARBON	1K	5%	1/4W	F
R404	1-249-417-11	CARBON	1K	5%	1/4W	F
R405	1-249-417-11	CARBON	1K	5%	1/4W	F
R406	1-249-417-11	CARBON	1K	5%	1/4W	F
R407	1-249-417-11	CARBON	1K	5%	1/4W	F
R408	1-249-429-11	CARBON	10K	5%	1/4W	
R409	1-249-437-11	CARBON	47K	5%	1/4W	
R410	1-247-897-11	CARBON	560K	5%	1/4W	
R411	1-249-416-11	CARBON	820	5%	1/4W	F
R412	1-247-897-11	CARBON	560K	5%	1/4W	
R413	1-249-437-11	CARBON	47K	5%	1/4W	
R414	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R415	1-249-417-11	CARBON	1K	5%	1/4W	F
R416	1-249-417-11	CARBON	1K	5%	1/4W	F
R417	1-247-897-11	CARBON	560K	5%	1/4W	
R420	1-249-441-11	CARBON	100K	5%	1/4W	
R435	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R442	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R443	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R447	1-249-416-11	CARBON	820	5%	1/4W	F
R448	1-249-429-11	CARBON	10K	5%	1/4W	
R449	1-249-433-11	CARBON	22K	5%	1/4W	
R450	1-249-400-11	CARBON	39	5%	1/4W	F
R451	1-249-411-11	CARBON	330	5%	1/4W	
R452	1-249-421-11	CARBON	2.2K	5%	1/4W	F

Ref. No.	Part No.	Description				Remarks
R453	1-249-417-11	CARBON	1K	5%	1/4W	F
R454	1-249-417-11	CARBON	1K	5%	1/4W	F
R455	1-249-417-11	CARBON	1K	5%	1/4W	F
R456	1-249-417-11	CARBON	1K	5%	1/4W	F
R457	1-249-417-11	CARBON	1K	5%	1/4W	F
R458	1-249-429-11	CARBON	10K	5%	1/4W	
R459	1-249-437-11	CARBON	47K	5%	1/4W	
R460	1-247-897-11	CARBON	560K	5%	1/4W	
R461	1-249-416-11	CARBON	820	5%	1/4W	F
R462	1-247-897-11	CARBON	560K	5%	1/4W	
R463	1-249-437-11	CARBON	47K	5%	1/4W	
R465	1-249-417-11	CARBON	1K	5%	1/4W	F
R466	1-249-417-11	CARBON	1K	5%	1/4W	F
R467	1-247-897-11	CARBON	560K	5%	1/4W	
R470	1-249-441-11	CARBON	100K	5%	1/4W	
R513	1-249-429-11	CARBON	10K	5%	1/4W	
R514	1-249-429-11	CARBON	10K	5%	1/4W	
R515	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R516	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R517	1-249-429-11	CARBON	10K	5%	1/4W	
R518	1-249-429-11	CARBON	10K	5%	1/4W	
R551	1-249-417-11	CARBON	1K	5%	1/4W	F
R552	1-249-438-11	CARBON	56K	5%	1/4W	
R553	1-249-412-11	CARBON	390	5%	1/4W	F (DE515:SP,MY/V505)
R553	1-249-411-11	CARBON	330	5%	1/4W	(D460Z/DE515:US,Canadian,E,EA,PX)
R554	1-249-438-11	CARBON	56K	5%	1/4W	
R555	1-249-413-11	CARBON	470	5%	1/4W	F
R560	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R561	1-249-437-11	CARBON	47K	5%	1/4W	
R562	1-249-431-11	CARBON	15K	5%	1/4W	
R563	1-249-414-11	CARBON	560	5%	1/4W	F
⚠R564	1-249-409-11	CARBON	220	5%	1/4W	F (DE515:SP,MY/V505)
⚠R564	1-249-408-11	CARBON	180	5%	1/4W	F (D460Z/DE515:US,Canadian,E,EA,PX,AUS)
⚠R565	1-249-409-11	CARBON	220	5%	1/4W	F (DE515:SP,MY/V505)
⚠R565	1-249-408-11	CARBON	180	5%	1/4W	F (D460Z/DE515:US,Canadian,E,EA,PX,AUS)
⚠R566	1-233-352-21	ENCAPSULATED COMPONENT				
⚠R567	1-249-393-11	CARBON	10	5%	1/4W	F
R568	1-249-389-11	CARBON	4.7	5%	1/4W	F
⚠R569	1-249-413-11	CARBON	470	5%	1/4W	F
R570	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R571	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R573	1-249-437-11	CARBON	47K	5%	1/4W	
R580	1-249-426-11	CARBON	5.6K	5%	1/4W	
R581	1-247-887-00	CARBON	220K	5%	1/4W	
R582	1-249-426-11	CARBON	5.6K	5%	1/4W	
R601	1-249-417-11	CARBON	1K	5%	1/4W	F
R602	1-249-438-11	CARBON	56K	5%	1/4W	
R603	1-249-438-11	CARBON	56K	5%	1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifie.

MAIN

Ref. No.	Part No.	Description				Remarks
R604	1-249-412-11	CARBON	390	5%	1/4W	F
						(DE515:SP,MY/V505)
R604	1-249-411-11	CARBON	330	5%	1/4W	
						(D460Z/DE515:US,Canadian,E,EA,PX,AUS)
⚠R610	1-249-393-11	CARBON	10	5%	1/4W	F
R611	1-249-389-11	CARBON	4.7	5%	1/4W	F
R612	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R619	1-249-413-11	CARBON	470	5%	1/4W	F
R630	1-249-426-11	CARBON	5.6K	5%	1/4W	
R631	1-247-887-00	CARBON	220K	5%	1/4W	
						(DE515/V505)
R632	1-249-426-11	CARBON	5.6K	5%	1/4W	
R635	1-249-429-11	CARBON	10K	5%	1/4W	
						(DE515/V505)
R651	1-249-417-11	CARBON	1K	5%	1/4W	F
R652	1-249-438-11	CARBON	56K	5%	1/4W	
R653	1-249-438-11	CARBON	56K	5%	1/4W	
R654	1-249-412-11	CARBON	390	5%	1/4W	F
						(DE515:SP,MY/V505)
R654	1-249-411-11	CARBON	330	5%	1/4W	
						(D460Z/DE515:US,Canadian,E,EA,PX,AUS)
⚠R660	1-249-393-11	CARBON	10	5%	1/4W	F
R661	1-249-389-11	CARBON	4.7	5%	1/4W	F
R662	1-249-437-11	CARBON	47K	5%	1/4W	
R681	1-247-887-00	CARBON	220K	5%	1/4W	
						(DE515/V505)
R685	1-249-429-11	CARBON	10K	5%	1/4W	
						(DE515/V505)
R701	1-249-417-11	CARBON	1K	5%	1/4W	F
R702	1-249-439-11	CARBON	68K	5%	1/4W	
R703	1-249-413-11	CARBON	470	5%	1/4W	F
						(DE515:SP,MY/V505)
R703	1-249-412-11	CARBON	390	5%	1/4W	F
						(D460Z/DE515:US,Canadian,E,AUS,EA,PX)
R704	1-249-439-11	CARBON	68K	5%	1/4W	
R710	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R711	1-249-437-11	CARBON	47K	5%	1/4W	
R713	1-249-414-11	CARBON	560	5%	1/4W	F
⚠R714	1-249-409-11	CARBON	220	5%	1/4W	F
						(DE515:SP,MY/V505)
⚠R714	1-249-408-11	CARBON	180	5%	1/4W	F
						(D460Z/DE515:US,Canadian,E,AUS,EA,PX)
⚠R715	1-249-409-11	CARBON	220	5%	1/4W	F
						(DE515:SP,MY/V505)
⚠R715	1-249-408-11	CARBON	180	5%	1/4W	F
						(D460Z/DE515:US,Canadian,E,AUS,EA,PX)
⚠R716	1-233-352-21	ENCAPSULATED COMPONENT				
⚠R717	1-249-393-11	CARBON	10	5%	1/4W	F
R718	1-249-389-11	CARBON	4.7	5%	1/4W	F
⚠R719	1-249-413-11	CARBON	470	5%	1/4W	F
R720	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R721	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R722	1-249-431-11	CARBON	15K	5%	1/4W	
R723	1-249-437-11	CARBON	47K	5%	1/4W	
R724	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R725	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R726	1-249-417-11	CARBON	1K	5%	1/4W	F
R727	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R730	1-249-429-11	CARBON	10K	5%	1/4W	
R731	1-247-887-00	CARBON	220K	5%	1/4W	
R734	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R740	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R741	1-249-393-11	CARBON	10	5%	1/4W	F
R742	1-249-427-11	CARBON	6.8K	5%	1/4W	F

Ref. No.	Part No.	Description				Remarks
R751	1-249-417-11	CARBON	1K	5%	1/4W	F
R752	1-249-439-11	CARBON	68K	5%	1/4W	
R753	1-249-413-11	CARBON	470	5%	1/4W	F
						(DE515:SP,MY/V505)
R753	1-249-412-11	CARBON	390	5%	1/4W	F
						(D460Z/DE515:US,Canadian,E,AUS,EA,PX)
R754	1-249-439-11	CARBON	68K	5%	1/4W	
R760	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R761	1-249-437-11	CARBON	47K	5%	1/4W	
R763	1-249-414-11	CARBON	560	5%	1/4W	F
⚠R764	1-249-409-11	CARBON	220	5%	1/4W	F
						(DE515:SP,MY/V505)
⚠R764	1-249-408-11	CARBON	180	5%	1/4W	F
						(D460Z/DE515:US,Canadian,E,AUS,EA,PX)
⚠R765	1-249-409-11	CARBON	220	5%	1/4W	F
						(DE515:SP,MY/V505)
⚠R765	1-249-408-11	CARBON	180	5%	1/4W	F
						(D460Z/DE515:US,Canadian,E,AUS,EA,PX)
⚠R766	1-233-352-21	ENCAPSULATED COMPONENT				
⚠R767	1-249-393-11	CARBON	10	5%	1/4W	F
R768	1-249-389-11	CARBON	4.7	5%	1/4W	F
R770	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R771	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R772	1-249-431-11	CARBON	15K	5%	1/4W	
R773	1-249-437-11	CARBON	47K	5%	1/4W	
R781	1-247-887-00	CARBON	220K	5%	1/4W	
⚠R801	1-215-883-11	METAL OXIDE	33	5%	2W	F
⚠R802	1-215-883-11	METAL OXIDE	33	5%	2W	F
⚠R803	1-215-883-11	METAL OXIDE	33	5%	2W	F
⚠R804	1-215-883-11	METAL OXIDE	33	5%	2W	F
⚠R805	1-215-883-11	METAL OXIDE	33	5%	2W	F
⚠R806	1-215-883-11	METAL OXIDE	33	5%	2W	F
⚠R807	1-249-405-11	CARBON	100	5%	1/4W	F
⚠R808	1-249-405-11	CARBON	100	5%	1/4W	F
⚠R809	1-249-405-11	CARBON	100	5%	1/4W	F
⚠R815	1-249-389-11	CARBON	4.7	5%	1/4W	F
						(DE515:SP,MY/V505)
⚠R815	1-247-739-11	CARBON	100	5%	1/2W	F
						(D460Z/DE515:US,Canadian,E,AUS,EA,PX)
R816	1-249-429-11	CARBON	10K	5%	1/4W	
R821	1-249-437-11	CARBON	47K	5%	1/4W	
R822	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R823	1-249-437-11	CARBON	47K	5%	1/4W	
R824	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R825	1-249-417-11	CARBON	1K	5%	1/4W	F
⚠R830	1-249-411-11	CARBON	330	5%	1/4W	
						(DE515:Canadian)
⚠R830	1-249-413-11	CARBON	470	5%	1/4W	F
						(D460Z/DE515:US,E,SP,AUS,EA,PX,MY/V505)
R950	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R951	1-249-429-11	CARBON	10K	5%	1/4W	
R952	1-247-843-11	CARBON	3.3K	5%	1/4W	
R953	1-249-433-11	CARBON	22K	5%	1/4W	
R954	1-249-439-11	CARBON	68K	5%	1/4W	
R955	1-249-429-11	CARBON	10K	5%	1/4W	
R956	1-247-843-11	CARBON	3.3K	5%	1/4W	
R957	1-249-417-11	CARBON	1K	5%	1/4W	F
R958	1-249-401-11	CARBON	47	5%	1/4W	F
R960	1-249-429-11	CARBON	10K	5%	1/4W	

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Ref. No.	Part No.	Description	Remarks
		< RELAY >	
RY551	1-515-920-11	RELAY (24V)	
RY601	1-515-920-11	RELAY (24V)	
RY701	1-515-920-11	RELAY (24V)	
RY801	1-515-894-11	RELAY (D460Z/DE515:US,E,SP,AUS,EA,PX,MY/V505)	
RY851	1-515-918-11	RELAY (DE515:Canadian)	
RY852	1-515-918-11	RELAY (DE515:Canadian)	
		< TERMINAL >	
TM1	1-537-714-11	TERMINAL BOARD (ANTENNA) (DE515:SP,AUS,MY/V505)	
TM1	1-694-265-11	TERMINAL BOARD (ANTENNA)(DE515:E,EA,PX)	
TM1	1-537-240-51	TERMINAL BOARD (ANTENNA) (D460Z/DE515:US,Canadian)	
TM601	1-537-510-11	TERMINAL BOARD (6P) (SURROUND SPEAKERS)	
TM701	1-537-376-11	TERMINAL BOARD (FRONT SPEAKERS)	
		< TUNER >	
TU001	1-233-594-11	ENCAPSULATED COMPONENT (DE515:E,SP,AUS,EA,PX,MY/V505)	
TU001	1-233-593-11	ENCAPSULATED COMPONENT (D460Z/DE515:US,Canadian)	
		< VIBRATOR >	
X301	1-579-952-21	VIBRATOR, CERAMIC 8MHz	
**********			
*	1-665-286-11	PRIMARY BOARD ********** (D460Z/DE515:US,Canadian,SP,MY,AUS/V505)	
	1-533-233-21	HOLDER, FUSE	
		< FUSE >	
⚠F901	1-532-464-51	FUSE (T2.5AL/250V) (DE515:AUS/V505)	
⚠F901	1-533-310-11	FUSE (6.3A/125V) (D460Z/DE515:US,Canadian)	
**********			
*	1-665-287-11	SECONDARY BOARD **********	
	1-533-233-21	HOLDER, FUSE	
		< CONNECTOR >	
CNP801	1-764-479-11	PIN, CONNECTOR (PC BOARD) 10P	
		< FUSE >	
⚠F801	1-532-464-51	FUSE (T3.15A/250V) (DE515:SP,MY/V505)	
⚠F801	1-576-108-11	FUSE, GLASS TUBE (4A/125V) (D460Z/DE515:US,Canadian)	
⚠F801	1-532-504-51	FUSE (T4AL) (DE515:E,EA,PX,AUS)	
⚠F802	1-532-464-51	FUSE (T3.15AL) (DE515:SP,MY/V505)	
⚠F802	1-532-504-51	FUSE (T4AL) (DE515:E,EA,PX,AUS)	
⚠F802	1-576-108-11	FUSE, GLASS TUBE (4A/125V) (D460Z/DE515:US,Canadian)	
**********			

Ref. No.	Part No.	Description	Remarks
*	1-665-263-11	SELECTOR BOARD (DE515:E,EA,PX) **********	
	1-533-233-21	HOLDER, FUSE	
		< CONNECTOR >	
* CNP907	1-565-395-11	PIN, CONNECTOR 3P	
CNP908	1-564-321-00	PIN, CONNECTOR 2P	
* CNP910	1-564-687-11	PIN, CONNECTOR 3P	
		< FUSE >	
⚠F904	1-532-464-51	FUSE (T2.5AL/250V)	
		< SWITCH >	
⚠S901	1-571-437-11	SWITCH, POWER (VOLTAGE SELECTOR)	
**********			
*	1-665-289-11	SP SW BOARD **********	
		< CONNECTOR >	
CNP703	1-764-474-11	PIN, CONNECTOR (PC BOARD) 5P	
CNP704	1-764-473-11	PIN, CONNECTOR (PC BOARD) 3P	
		< JACK >	
J741	1-750-735-11	JACK (LARGE TYPE)(PHONES)(V505)	
J741	1-750-733-11	JACK (LARGE TYPE)(PHONES)(D460Z/DE515)	
		< RESISTOR >	
R741	1-247-753-11	CARBON 1.2K 5% 1/2W	
R742	1-247-753-11	CARBON 1.2K 5% 1/2W	
R791	1-247-753-11	CARBON 1.2K 5% 1/2W	
R792	1-247-753-11	CARBON 1.2K 5% 1/2W	
		< SWITCH >	
S701	1-762-319-11	SWITCH, PUSH (2 KEY)(SPEAKERS)	
**********			
*	1-665-285-11	STBY BOARD **********	
	1-533-233-21	HOLDER, FUSE	
		< JACK >	
⚠CNJ902	1-540-057-11	OUTLET, AC (POLAR) (US,Canadian,E,EA,PX)	
		< CONNECTOR >	
CNP802	1-779-495-11	PLUG, CONNECTOR PIN 4P	
CNP901	1-564-321-00	PIN, CONNECTOR 2P	
CNP902	1-564-321-00	PIN, CONNECTOR 2P (DE515:E,EA,PX)	
CNP903	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P (DE515:SP,MY,AUS/V505)	
CNP905	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P (DE515:E,EA,PX)	
* CNP906	1-564-687-11	PIN, CONNECTOR 3P (DE515:E)	
		< DIODE >	
D816	8-719-987-63	DIODE 1N4148M	

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STBY **SWITCH** **VIDEO**

Ref. No.	Part No.	Description				Remarks
		< FUSE >				
⚠F902	1-532-464-51	FUSE (T2.5AL) (SP,MY,AUS,CH)				
		< TERMINAL >				
* G900	1-537-738-21	TERMINAL,EARTH (US,Canadian)				
		< RESISTOR >				
⚠R901	1-202-725-00	SOLID	3.3M	10%	1/2W (US,Canadian)	
		< RELAY >				
⚠RY901	1-515-720-11	RELAY				
		< TRANSFORMER >				
⚠T902	1-450-358-11	TRANSFORMER, POWER (E,SP,AUS,EA,PX,MY,CH)				
⚠T902	1-450-361-11	TRANSFORMER, POWER (US,Canadian)				
**********						
*	A-4392-780-A	SWITCH BOARD, COMPLETE **********				
		< CAPACITOR >				
C425	1-126-096-11	ELECT	10uF	20%	35V	
C426	1-126-096-11	ELECT	10uF	20%	35V	
C427	1-162-207-31	CERAMIC	22PF	5%	50V	
C428	1-124-252-00	ELECT	0.33uF	20%	50V	
C429	1-130-489-00	MYLAR	0.033uF	5%	50V	
C430	1-102-973-00	CERAMIC	100PF	5%	50V	
C432	1-126-096-11	ELECT	10uF	20%	35V	
C433	1-126-096-11	ELECT	10uF	20%	35V	
C475	1-126-096-11	ELECT	10uF	20%	35V	
C476	1-126-096-11	ELECT	10uF	20%	35V	
C477	1-162-207-31	CERAMIC	22PF	5%	50V	
C478	1-124-252-00	ELECT	0.33uF	20%	50V	
C479	1-130-489-00	MYLAR	0.033uF	5%	50V	
C480	1-102-973-00	CERAMIC	100PF	5%	50V	
C492	1-124-464-11	ELECT	0.22uF	20%	50V	
C500	1-164-159-11	CERAMIC	0.1uF		50V	
C501	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C503	1-162-282-31	CERAMIC	100PF	10%	50V	
C511	1-126-163-11	ELECT	4.7uF	20%	50V	
C512	1-126-163-11	ELECT	4.7uF	20%	50V	
		< CONNECTOR >				
* CN501	1-569-306-11	SOCKET, CONNECTOR (L TYRE) 15P				
* CN505	1-569-306-11	SOCKET, CONNECTOR (L TYRE) 15P				
* CNP507	1-770-394-11	PIN, CONNECTOR (PC BOARD) 10P				
CNS503	1-695-092-11	SOCKET, CONNECTOR 7P				
CNS504	1-695-092-11	SOCKET, CONNECTOR 7P				
		< DIODE >				
D421	8-719-987-63	DIODE 1N4148M				
		< IC >				
IC404	8-759-636-74	IC M5218AP-22				
IC500	8-759-805-14	IC LC7822				
IC502	8-759-636-74	IC M5218AP-22				

Ref. No.	Part No.	Description				Remarks
		< TRANSISTOR >				
Q401	8-729-202-67	TRANSISTOR 2SK246-GR3				
Q402	8-729-141-30	TRANSISTOR 2SC3623A-LK				
Q451	8-729-202-67	TRANSISTOR 2SK246-GR3				
Q452	8-729-141-30	TRANSISTOR 2SC3623A-LK				
		< RESISTOR >				
R426	1-249-429-11	CARBON	10K	5%	1/4W	
R427	1-249-439-11	CARBON	68K	5%	1/4W	
R428	1-249-417-11	CARBON	1K	5%	1/4W	F
R430	1-249-437-11	CARBON	47K	5%	1/4W	
R431	1-247-843-11	CARBON	3.3K	5%	1/4W	
R432	1-247-883-00	CARBON	150K	5%	1/4W	
R433	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R434	1-249-413-11	CARBON	470	5%	1/4W	F
R438	1-249-441-11	CARBON	100K	5%	1/4W	
R441	1-249-441-11	CARBON	100K	5%	1/4W	
R444	1-247-903-00	CARBON	1M	5%	1/4W	
R464	1-247-903-00	CARBON	1M	5%	1/4W	
R469	1-247-903-00	CARBON	1M	5%	1/4W	
R476	1-249-429-11	CARBON	10K	5%	1/4W	
R477	1-249-439-11	CARBON	68K	5%	1/4W	
R478	1-249-417-11	CARBON	1K	5%	1/4W	F
R480	1-249-437-11	CARBON	47K	5%	1/4W	
R481	1-247-843-11	CARBON	3.3K	5%	1/4W	
R482	1-247-883-00	CARBON	150K	5%	1/4W	
R483	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R484	1-249-413-11	CARBON	470	5%	1/4W	F
R491	1-249-441-11	CARBON	100K	5%	1/4W	
R492	1-247-903-00	CARBON	1M	5%	1/4W	
R494	1-247-903-00	CARBON	1M	5%	1/4W	
R501	1-247-843-11	CARBON	3.3K	5%	1/4W	
R502	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R503	1-249-429-11	CARBON	10K	5%	1/4W	
R504	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R505	1-249-421-11	CARBON	2.2K	5%	1/4W	
R507	1-249-417-11	CARBON	1K	5%	1/4W	F
R508	1-247-849-11	CARBON	5.6K	5%	1/4W	
R511	1-249-441-11	CARBON	100K	5%	1/4W	
R512	1-249-441-11	CARBON	100K	5%	1/4W	
R519	1-249-429-11	CARBON	10K	5%	1/4W	
R520	1-249-417-11	CARBON	1K	5%	1/4W	F
**********						
*	1-665-261-11	VIDEO BOARD **********				
	7-685-872-09	SCREW +BVTT 3X8 (S)				
		< CAPACITOR >				
C250	1-126-960-11	ELECT	1uF	20%	50V	
C251	1-126-960-11	ELECT	1uF	20%	50V	
C252	1-164-159-11	CERAMIC	0.1uF		50V	
C253	1-104-664-11	ELECT	47uF	20%	25V	
C254	1-164-159-11	CERAMIC	0.1uF		50V	

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Ref. No.	Part No.	Description				Remarks
C255	1-126-924-11	ELECT	330uF	20%	10V	
C256	1-162-215-31	CERAMIC	47PF	5%	50V	
C257	1-162-215-31	CERAMIC	47PF	5%	50V	
C258	1-126-960-11	ELECT	1uF	20%	50V	
C291	1-126-795-11	ELECT	10uF	20%	50V	
						(DE515,MY/V505)
C292	1-104-664-11	ELECT	47uF	20%	25V	
						(DE515,MY/V505)
		< CONNECTOR >				
CNS250	1-569-060-11	SOCKET, CONNECTOR 11P				
CNS506	1-569-321-11	SOCKET, CONNECTOR 15P				
		< DIODE >				
D291	8-719-001-30	DIODE UZL-9H3 (DE515/V505)				
D292	8-719-987-63	DIODE 1N4148M (DE515/V505)				
D310	8-719-987-63	DIODE 1N4148M (DE515/V505)				
		< IC >				
IC251	8-759-333-84	IC NJM2279D				
IC290	8-759-634-65	IC M5278D09 (DE515/V505)				
		< JACK >				
J251	1-695-317-21	JACK, PIN 2P (VIDEO/TV DBS)				
J252	1-766-199-11	JACK, PIN 3P (VIDEO/MONITOR)				
J253	1-774-843-11	JACK, PIN 1P (WOOFER)				
J254	1-774-136-11	CONNECTOR, ROUND TYPE 6P				
		(REAR SPEAKER) (DE515/V505)				
J501	1-779-380-11	JACK, PIN 6P				
		(FRONT/REAR/WOOFER/CENTER)				
		< TRANSISTOR >				
Q291	8-729-119-78	TRANSISTOR	2SC403SP-51 (DE515/V505)			
Q292	8-729-030-19	TRANSISTOR	2SB1640 (DE515/V505)			
Q293	8-729-209-15	TRANSISTOR	2SB2012 (DE515/V505)			
Q367	8-729-119-78	TRANSISTOR	2SC403SP-51 (DE515/V505)			
		< RESISTOR >				
R251	1-247-804-11	CARBON	75	5%	1/4W	
R252	1-247-804-11	CARBON	75	5%	1/4W	
R253	1-247-804-11	CARBON	75	5%	1/4W	
R254	1-247-804-11	CARBON	75	5%	1/4W	
R255	1-249-429-11	CARBON	10K	5%	1/4W	
R256	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R257	1-249-407-11	CARBON	150	5%	1/4W	F
⚠R258	1-249-411-11	CARBON	330	5%	1/4W	
R259	1-247-804-11	CARBON	75	5%	1/4W	
R262	1-249-433-11	CARBON	22K	5%	1/4W	
						(DE515/V505)
R263	1-249-421-11	CARBON	2.2K	5%	1/4W	
						(DE515/V505)
R264	1-249-433-11	CARBON	22K	5%	1/4W	
						(DE515/V505)
R272	1-249-417-11	CARBON	1K	5%	1/4W	F
R274	1-249-417-11	CARBON	1K	5%	1/4W	F
R276	1-249-417-11	CARBON	1K	5%	1/4W	F

Ref. No.	Part No.	Description				Remarks
R278	1-249-417-11	CARBON	1K	5%	1/4W	F
R280	1-249-417-11	CARBON	1K	5%	1/4W	F
R282	1-249-417-11	CARBON	1K	5%	1/4W	F
R287	1-249-437-11	CARBON	47K	5%	1/4W	
						(DE515:SP,MY/V505)
R287	1-247-871-11	CARBON	47K	5%	1/4W	
						(DE515:US,Canadian,E,EA,PX,AUS)
R288	1-249-425-11	CARBON	4.7K	5%	1/4W	F
						(DE515:SP,MY/V505)
R288	1-247-847-11	CARBON	4.7K	5%	1/4W	
						(DE515:US,Canadian,E,EA,PX,AUS)
⚠R290	1-215-882-00	METAL OXIDE	22	5%	2W	F
						(DE515/V505)
⚠R291	1-215-882-00	METAL OXIDE	22	5%	2W	F
						(DE515/V505)
⚠R292	1-215-882-00	METAL OXIDE	22	5%	2W	F
						(DE515/V505)
⚠R293	1-215-882-00	METAL OXIDE	22	5%	2W	F
						(DE515/V505)
⚠R294	1-215-882-00	METAL OXIDE	22	5%	2W	F
						(DE515/V505)
⚠R295	1-215-882-00	METAL OXIDE	22	5%	2W	F
						(DE515/V505)
⚠R296	1-215-882-00	METAL OXIDE	22	5%	2W	F
						(DE515/V505)
⚠R297	1-215-882-00	METAL OXIDE	22	5%	2W	F
						(DE515/V505)
⚠R298	1-215-882-00	METAL OXIDE	22	5%	2W	F
						(DE515/V505)
⚠R299	1-215-882-00	METAL OXIDE	22	5%	2W	F
						(DE515/V505)
R397	1-249-419-11	CARBON	1.5K	5%	1/4W	
R399	1-249-426-11	CARBON	5.6K	5%	1/4W	
		< RELAY>				
RY301	1-515-793-11	RELAY				
**********						
*	A-4392-778-A	VR TONE BOARD, COMPLETE				
		**********				
		(Including VOLUME BOARD)				
		< CAPACITOR >				
C220	1-126-301-11	ELECT	1uF	20%	50V	
C221	1-126-301-11	ELECT	1uF	20%	50V	
C361	1-164-159-11	CERAMIC	0.1uF		50V	
C362	1-164-159-11	CERAMIC	0.1uF		50V	
C363	1-164-159-11	CERAMIC	0.1uF		50V	
C364	1-164-159-11	CERAMIC	0.1uF		50V	
C365	1-164-159-11	CERAMIC	0.1uF		50V	
C381	1-126-963-11	ELECT	4.7uF	20%	50V	
C382	1-126-963-11	ELECT	4.7uF	20%	50V	
C383	1-126-963-11	ELECT	4.7uF	20%	50V	
C384	1-126-963-11	ELECT	4.7uF	20%	50V	
C385	1-126-963-11	ELECT	4.7uF	20%	50V	
C421	1-137-440-11	FILM	0.018uF	5%	50V	
C422	1-124-463-00	ELECT	0.1uF	20%	50V	
C423	1-137-368-11	FILM	0.0047uF	5%	50V	

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Replace only with part number specified.

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Ne les remplacer que par une pièce portant le numéro spécifié.

VR TONE

(VOLUME)

Ref. No.	Part No.	Description			Remarks
C424	1-137-372-11	FILM	0.022uF	5%	50V
C471	1-137-440-11	FILM	0.018uF	5%	50V
C472	1-124-463-00	ELECT	0.1uF	20%	50V
C473	1-137-368-11	FILM	0.0047uF	5%	50V
C474	1-137-372-11	FILM	0.022uF	5%	50V
		< CONNECTOR >			
* CNP202	1-770-394-11	PIN, CONNECTOR (PC BOARD) 10P			
CNS402	1-568-442-11	SOCKET, CONNECTOR 9P			
CNS502	1-569-321-11	SOCKET, CONNECTOR 15P			
CNS507	1-770-403-11	HOUSING,CONNECTOR(PC BOARD)10P			
		< DIODE >			
D238	8-719-313-50	DIODE SEL6810A-TH12 (BASS BOOST)			
		< TRANSISTOR >			
Q361	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q362	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q363	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q364	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q365	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q366	8-729-141-30	TRANSISTOR 2SC3623A-LK			
		< RESISTOR >			
R351	1-249-417-11	CARBON	1K	5%	1/4W F
R352	1-249-417-11	CARBON	1K	5%	1/4W F
R353	1-249-417-11	CARBON	1K	5%	1/4W F
R354	1-249-417-11	CARBON	1K	5%	1/4W F
R355	1-249-417-11	CARBON	1K	5%	1/4W F
R361	1-249-425-11	CARBON	4.7K	5%	1/4W F
R362	1-249-425-11	CARBON	4.7K	5%	1/4W F
R363	1-249-425-11	CARBON	4.7K	5%	1/4W F
R364	1-249-425-11	CARBON	4.7K	5%	1/4W F
R365	1-249-425-11	CARBON	4.7K	5%	1/4W F
R366	1-249-441-11	CARBON	100K	5%	1/4W
R367	1-249-441-11	CARBON	100K	5%	1/4W
R368	1-249-441-11	CARBON	100K	5%	1/4W
R369	1-249-441-11	CARBON	100K	5%	1/4W
R370	1-249-441-11	CARBON	100K	5%	1/4W
R371	1-249-441-11	CARBON	100K	5%	1/4W
		< RESISTOR >			
R421	1-249-430-11	CARBON	12K	5%	1/4W
R422	1-249-422-11	CARBON	2.7K	5%	1/4W F
R423	1-247-903-00	CARBON	1M	5%	1/4W
R424	1-247-903-00	CARBON	1M	5%	1/4W
R425	1-249-415-11	CARBON	680	5%	1/4W F
R471	1-249-430-11	CARBON	12K	5%	1/4W
R472	1-249-422-11	CARBON	2.7K	5%	1/4W F
R473	1-247-903-00	CARBON	1M	5%	1/4W
R474	1-247-903-00	CARBON	1M	5%	1/4W
R475	1-249-415-11	CARBON	680	5%	1/4W F

Ref. No.	Part No.	Description	Remarks
		< VARIABLE RESISTOR >	
RV404	1-225-446-11	RES, VAR, CARBON 100KX6	(MASTER VOLUME)
RV421	1-223-362-11	RES, VAR, CARBON 100K/100K (BASS)	
RV422	1-223-363-11	RES, VAR, CARBON 125K/125K (TREBLE)	
RV423	1-225-447-11	RES, VAR, CARBON 100K/100K (BALANCE)	
		< SWITCH >	
S240	1-762-751-11	SWITCH, TACTILE (BASS BOOST)	
**********			
		MISCELLANEOUS	
		**********	
10	1-782-084-11	WIRE (FLAT TYPE) (23 CORE)	
11	1-782-075-11	WIRE (FLAT TYPE) (9 CORE)	
12	1-782-243-11	WIRE (FLAT TYPE) 15P	
53	1-769-746-61	LEAD (WITH CONNECTOR)	(2 CORE)(DE515:E,EA,PX)
61	1-782-077-11	WIRE (FLAT TYPE) (11 CORE)	
⚠71	1-696-847-11	CORD, POWER (AUS)	
⚠71	1-777-070-11	CORD, POWER (US,CND)	
⚠71	1-777-071-11	CORD, POWER (E,SP,EA,PX,MY,CH)	
72	1-569-008-21	ADAPTOR, CONVERSION 2P (E,EA,PX)	
⚠CNJ903	1-251-416-11	OUTLET, A.C. (AUS)	
⚠CNJ903	1-526-794-11	OUTLET, A.C. (SP,MY,CH)	
⚠T901	1-431-267-11	TRANSFORMER, POWER (US)	
⚠T901	1-431-268-11	TRANSFORMER, POWER (Canadian)	
⚠T901	1-431-269-11	TRANSFORMER, POWER (SP,MY,CH)	
⚠T901	1-431-270-11	TRANSFORMER, POWER (AUS)	
⚠T901	1-431-271-11	TRANSFORMER, POWER (E,EA,PX)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-475-136-11	REMOTE COMMANDER (RM-U301)	
	1-501-594-11	ANTENNA (FM) (DE515:SP,MY,AUS/V505)	
	1-501-659-11	ANTENNA (FM)	(D460Z/DE515:US,Canadian,E,EA,PX)
	1-501-721-11	ANTENNA (LOOP)	
	3-859-657-21	MANUAL, INSTRUCTION (ENGLISH)	(D460Z/DE515:US,AUS)
	3-859-657-31	MANUAL, INSTRUCTION (ENGLISH/FRENCH)	(DE515:Canadian)
	3-859-657-61	MANUAL, INSTRUCTION	(ENGLISH/FRENCH/SPANISH/CHINESE) (DE515:E,SP,EA,PX,MY/V505)
	4-981-643-01	COVER,BATTERY (FOR RM-U301)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-880-09	SCREW +BVTT 4X8 (S)	
#3	7-685-872-09	SCREW +BVTT 3X8 (S)	
#4	7-658-646-71	SCREW +BTP 3X8	

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